ABSTRACT OF THE DISCLOSURE

The present invention provides a non-aqueous electrolyte secondary cell that has good high-temperature cycle characteristics and good high-temperature standing resistance, and that is highly safe enough to prevent overcharge. The non-aqueous electrolyte secondary cell of the invention utilizes a non-aqueous electrolyte that includes a vinylene carbonate derivative, a cyclic sulfite derivative, and both/either of a phenylcycloalkane derivative and/or an alkylbenzene derivative having a quaternary carbon directly bonded to a benzene ring.